

Claim 1 [according to Claim 11 or Claim 12] into contact with [a] at least one compound [or a mixture of compounds].

- (b) determining the receptor concentration, and
- (c) determining the [compound(s)] compound which specifically [influence(s)] influences the expression of the receptor.

Please add the following new Claims 22-34:

--22. The nucleic acid of Claim 1 which comprises a sequence that hybridizes with a sequence defined under (a) in 0.5 x SSC at 60°C.

23. The nucleic acid of Claim 1 which comprises the sequence that hybridized with a sequence defined in (a) in 0.2 x SSC at 60°C.

24. A host cell containing the vector of Claim 2.

25. A host cell containing the vector of Claim 3.

26. The host cell of Claim 24 that is a prokaryotic or a eukaryotic cell.

27. The host cell of Claim 25 that is prokaryotic or a eukaryotic cell.

28. The host cell of Claim 26 that is an E. coli cell.

29. The host cell of Claim 27 that is an E. coli cell.

30. The host cell of Claim 26 that is a mammalian or an insect cell.

31. The host cell of Claim 27 that is a mammalian or an insect cell.

32. An antibody which reacts specifically with the acetylcholine receptor of Claim 9.

33. A transgenic progeny of the invertebrate of Claim 13.--

#### REMARKS

The specification has been amended at page 4 to insert a Brief Description of the Drawing. This description corresponds to that given at page 8, lines 19-20 of the specification.

The specification has also been amended at page 16 to change the heading from "References" to "Prior Art" to more accurately reflect the status of these disclosures.

Claim 21 has been cancelled.

Claims 1-20 have been rewritten to place them in better grammatical form and to remove the multiple dependencies which occurred therein.

New Claims 22 and 23 are directed to subject matter deleted from original Claim 1.

New Claims 24 and 25 are directed to subject matter deleted from original Claim 4.

New Claims 26 and 27 are directed to subject matter deleted from original Claim 5.

New Claims 28 and 29 are directed to subject matter deleted from original Claim 6.

New Claims 30 and 31 are directed to subject matter deleted from original Claim 7.

New Claim 32 is directed to subject matter deleted from original Claim 11.

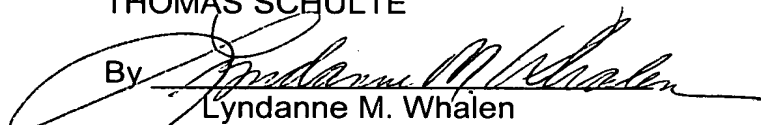
New Claim 33 is directed to subject matter deleted from original Claim 14.

An Action on the merits of this case is respectfully requested.

Respectfully submitted,

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